

OSCILLATOR

Oregon Tualatin Valley Amateur Radio Club (Est. 1978)

April 1997

THE PREZ SAYS

By Betty, N7REX

Spring has sprung (a leak, that is), the daffodils are in bloom, and the time is right for reminiscing about great field days of the past and planning for this year's event. I hope everyone will be bringing their best anecdote about field day to the meeting. Also I hope to see many wonderful picture collages as well. I believe that it is a good idea to revisit previous field days as we begin to plan for this year. At the meeting, we will also be talking about the proposed site and

looking for suggestions for this year's events.

Last month's president's prize drawing went to Chuck, KI7CL, (ask Wes, K7WWG, about the first ticket drawn). The following people brought in pictures for the picture wall: Chuck and I; Wes brought one of himself and Wayne at a very early age; Van, KE7BB; Willy, N7DZR, brought a picture of his shack — but he wasn't in it; and Al, WB7SIC, brought in two pictures (I think he was trying to confuse us, but some people knew him way back then).

Our last travelers' outing was a wet one. It rained nearly the whole weekend, but even so we had a couple come all the way to Cape Kiwanda for the pot luck. It was good to see Mel, KB7PVW, and Linda. I hope they and others will come for the pot luck at future camp outs, even if they don't camp. As Geno, KA7KBH, would asking say, "We always have good eats!!!".

Speaking of the travelers, they are a really great bunch of people who look out for each other. On our way back, we missed the turnout for the waterfalls on highway 6 where we had planned to have lunch, so we pulled off alongside the road. As I was out stretching my legs and looking at the tiny trickle of a falls-wannabe, I heard the sound of a vehicle's sudden stop. It was Al and Mary, N7TRW, who had recognized our vehicle and stopped to see if we needed help. TheY weren't interested in 'helping us eat lunch', so they continued on their way. The travelers have so many interesting stories to tell about giving a helping hand during their adventures, a book could be written. Come to a camp out and share in the

stories around a cozy fire.

This month's picture wall will be field day collages. If you know the year and location, please attach a note (or sticky note) to your photo(s). As usual, there will be a special drawing for those who bring in pictures. Let's try to fill the wall with pictures this time. I'll bring lots of tape. It doesn't have to be of an OTVARC field day, just one you attended.

Thinking ahead, May's picture wall will be family photos. Because May is Mother's Day month, I will be asking you to bring a mom in as a guest. It can be your mom, the mother of your children, the mother of your grandchildren, the person who mothers you or any other 'mom' you can think of. The program will be on garden railroads — hopefully with models. It should be fun.

73, Betty

NEXT MEETING

Wednesday, April 9TH

The program will be a discussion of our upcoming (last weekend in June) Field Day activity.

Carl Clawson, WS7L, will be our speaker. Come on down and help plan for a fun campout/picnic/hamming weekend.

W7OTV 146.90 (RPTR)

WWW.EASYSTREET.COM/OTVARC

OTVARC



Project Night (Weekend)

By Alan, KB7POR

Last month you read about the problems of batteries for our radios. I also suggested some solutions to the problem of not having enough electrons in storage for emergencies or other long winded activities. This is part of the build up to a construction project later this year.

I am looking at doing something a little different from the project nights last year. This time we will get together and build a somewhat larger item; a lead-acid/gel-cell battery charger. The charger is available as a kit from Jade Products.

The schedule of events goes something like this. Over the next several months I am going to learn all I can about this charger and charging lead-acid batteries. In July I will be the program for the meeting and I will talk about battery charging. Sometime in August, on a Saturday, we will meet in my garage to assemble the battery chargers.

Your job, between now and then, is to purchase the kit and prepare to build it. I will have information on where to order the kit.

This is the plan and I would like to hear from you if you plan to participate. I think this is a project that anyone in the club can do with the help of the more experienced members. This means that I will be looking for people to assist the soldering neophytes. Please step forward to volunteer to build and to assist.

I have talked to several people about project nights, and there is still interest in the evening

* * * * *

RF SAFETY STANDARDS

By W7OTV

Excerpts from CQ Magazine, author Fred Maia, W5YI

On August 1, 1996, the FCC *included* Amateur radio transmitters in the 1992 ANSI standard for RF exposure. This is designated the ANSI/IEEE C95.1-1992. This *new* standard is more restrictive in the amount of environmental RF exposure permitted and extends the frequency range under consideration to cover all frequencies from 3 Khz to 300 Ghz - every frequency band used by amateur radio.

The new guidelines provide for two levels of exposure limits. One "controlled" level applies to people who are aware of the potential for RF exposure. The other "uncontrolled" level covers those of the general public, who have no knowledge or control over their exposure.

Since amateur radio transmissions impact both the amateur operator who can exercise control over transmitted RF and their neighbors who cannot, amateur radio transmissions were ruled to be in both controlled and uncontrolled environments. The ARRL has opposed use of the higher safety factor, but the FCC approved it anyway.

On August 6th the FCC's Wireless Telecommunications Bureau revised the Part 97 Rules with an immediate effective date to reflect the new RF exposure standard. The new Part 97 FCC requirements are:

- A. An RF radiation evaluation is required when the transmitter power exceeds 50 watts peak envelope power (97.13(c)).
- B. Steps must be taken, if the RF radiation is in excess of the limits, to prevent such an occurrence (97.13(c)).
- C. A tenth new license examination topic entitled "Radio frequency environmental safety practices at an amateur station" is to be added to Element 2 (Novice), 3A (Technician), and 3B (General) written exams (97.503(c)).

LICENSE RENEWAL TO REQUIRE CERTIFICATION

Effective January 1, 1998 applicants for new licenses and renewals will be required to certify, on a new version of the FCC Form 610 application, that they have read and understand the FCC's rules regarding RF exposure. Also, Part 97.13(c) *requires that an RF evaluation be conducted when more than 50 watts is to be radiated.*

There are three ways to determine RF exposure. They are by:

- 1. Using electronic instruments that measure field strength;
- 2. Performing complex mathematical calculations based on generic formulas provided by the FCC, and by;
- 3. Using tabular charts and computer programs which determine "worst case" estimated distances to meet the RF power density guidelines.

It is reported the FCC's Office of Engineering and Technology is now working on a new RF Safety booklet specifically directed at radio amateur operations. This booklet could supplement Part 97 rules and be used by amateurs to certify compliance with the RF exposure safety guidelines.

AFFECT ON AMATEUR LICENSE EXAMS

On December 1, 1996, the Question Pool Committee released revised questions for Elements 2, 3A and 3B, including RF Safety questions, which are to be included in examinations administered *after* July 1, 1997.

Anyone who will need to renew your license near January 1, 1998, certainly should do it prior to that date to avoid the requirement to certify your station. In the meantime, stay tuned for more information on this development - I'm sure it will be a hot topic for some time.

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VE AND OO PROTECTION BILL INTRODUCED IN US HOUSE

By W7OTV
From The ARRL Letter

Good news for ham radio volunteers: The Amateur Radio Volunteer Services Act of 1997 (HR 1013) was introduced this week (March 9th) by US Rep Anna Eshoo of California.

If enacted, the bill will place volunteers who are in the Volunteer Examination Program (VE) and the Amateur Auxiliary (OO) under the protections of the Federal Tort Claims Act by affording them the same legal protections as employees of the Federal Government while they're carrying out such volunteer duties.

"This bill would help protect the personal liability of volunteer Amateur Radio operators while performing duties on behalf of the Federal Government," Eshoo said in introducing the measure. As she explained it on the House floor, it's simply a question of fairness for volunteers, who risk damaging lawsuits while saving the government time and money. The bill was introduced with 21 co-sponsors hailing from both parties.

Eshoo also said "this act would classify those individuals donating their time and expertise to maintaining the quality of the Amateur Radio airwaves as Federal employees only for the purpose of actions taken against them in the performance of their duties as self-regulators. This action will ensure the continued viability of the amateur radio community and continue to save the FCC and the Federal Government time and money that would otherwise need to be expended." (Ed. - see Page 4 for related article)

HAD SOME AMATEUR GEAR DISAPPEAR?

By Editor, WORLD RADIO

If someone steals your radio, e-mail the details of the theft to Mark Saunders, KJ7BS. Mark offers a free service to help amateurs whose gear has been lost or stolen. Check out lost or stolen ham gear listings on his Internet home page at:

<http://www.dancris.com/~tracker/tracker.html>

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OTVARC TRAVELERS NEWS

By Willis, N7DZR

The OTVARC Travelers have been working on a generator capable of serving all the campers at the same time. The requirements were to create a generator with enough KW's so only one generator is needed, a generator that would keep fuel use to a minimum, a generator that would be very quiet, and a generator that would be compact and light. And, all this had to be within our limited budget.

Many ideas were brought to each camp out on the third weekend of the month. All the ideas were put to the group for evaluation. After all ideas were exhausted, the big decision was made. We narrowed it down to three generator designs that appeared to meet the requirements.

Now it became necessary to draw plans and estimate the costs of each design. After the plans were completed, it was determined that not all the necessary equipment for building any of the three could be found within the member's facilities.

This situation put us back to the drawing board. Ideas were expressed again and it was determined that by buying a used one, even a dead one, we could rebuild it and maybe modify it for our requirements and keep outside costs down.

The search for a used generator was frustrating to say the least. After many look-sees, a used generator was acquired. We had to narrow the three possible ideas down to one because cost prohibited the production of all three prototypes. Building even one, we would have to be very conscious about expenses.

The generator purchased was completely disassembled and all parts were magna fluxed and x-rayed. This step was easy on our budget, for friends of the Travelers did this for us. The generator itself was examined and it was discovered one winding needed to be re-wound. With the skill and technique of one who used to work with inductors at Tektronix, this was accomplished. So things seemed to be going pretty good, except for rebuilding the power unit. We found the weight of the power unit, and fuel it would consume, to be prohibitive.

Adapting an idea from one of the first submitted ideas, we found we could reduce the weight, and do without buying fuel. The thought of using atmosphere pressure really raised a few eyebrows. Research indicated this was an original idea. No-where could we find any information using atmosphere pressure to power anything. But knowing we had pressure, we knew we could turn the pressure into work, thereby giving us the power to drive the generator.

Discussing the technical aspects of this is beyond the scope of this article. It was almost beyond the scope of the builders. Basically we used expandable and self contracting rubber diaphragms and double action valves. The pistons and drive train were of light weight material from the NASA program and are still un-named. The housing for the power unit is formed using expandable Styro-

(Continued on page 4)

(Continued from page 3)

foam, hardened to a Rockwell hardness of 62. The generator itself was left in its original form except for the outside casing. It was made lighter by using a casting of mylar and graphite.

This should tell all that the OTVARC Travelers do more than just camp out, enjoy the friendships, and have great potlucks. The April outing will be a great time to come along and witness the starting of our atmosphere pressure driven generator.

UPDATE ON AREA HAM FAIRS & SWAPMEETS

By W7OTV
From The ARRL Letter

This is the latest listing from ARRL for the Northwest Division:

- April 19 - Lewiston-Clarkston Hamfest
- April 26 - Clark County Fleamarket, Vancouver, WA
- April 26 - Umpqua Valley ARC, Roseburg, OR
- May 3 - Keno ARC, Klamath Falls, OR
- May 10 - Snake River ARC, Caldwell, ID
- May 10 - Stanwood-Camano Is. Hamfest, Stanwood, WA
- May 10 - Portland ARC Fleamarket
- May 17-18 - Yakima Hamfest, Selah, WA
- May 30-June 1 - Wenatchee, WA Hamfest,
- June 7 - Kootenai Hamfest, Rathdrum, ID
- June 13-15 - NW Div. Convention, Seaside, OR
- July 18-20 - Glacier-Waterton Intl. Hamfest, MT
- July 19 - Coos Bay Hamfest, North Bend, OR
- Aug. 2-3 - Spokane, WA Hamfest
- Aug. 9 - Tacoma, WA Flea Market
- Aug. 10 - Ham Radio & Computer Hobbyists Swapmeet
Central Oregon DX Club, Redmond, OR
- Aug. 16 - Lower Columbia ARA, Longview, WA
- Sep. 27-28 - Walla Walla, WA Hamfest
- Oct. 25 - Mid-Valley ARES, Rickreall, OR
- Oct 25 - Bellingham Hamfest, Ferndale, WA

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NO APRIL FOOL — A Malaysian Internet provider bet some \$18,000 that no hacker could crack its costly security system. It lost the money within minutes of the offer!!!

THE SATERN NET

By Willis, N7DZR

Come join us on 14.265 Mhz, Monday through Friday, at 0700 hours local, and Saturdays *one-half hour later at 0730*. This is the *SATERN NET*. SATERN stands for Salvation Army Team Emergency Radio Net. This is a net with a real purpose — during the recent flooding in the Ohio River it was very active. Net control is often W7LXR (Russ), in Portland, Oregon.

If there is enough interest and enough participants, an arrangement can be made for those *without HF capabilities or those without HF privileges*, to check-in by *two meters*. After all, two meters would be used extensively for local incidents.

Please contact W7LXR, Russ Fillinger, by phone at 503-452-4114 or by E-mail at w7lxr@juno.com for more information.

ANTENNA AND LIGHTNING SAFETY

From the TERAC newsletter
Author unknown

Andy Funk, KB7UV, assistant news operations manager at WAGA-TV, in Atlanta, Georgia, has posted some information on his station's web site that is potentially useful to amateurs.

The Microwave ENG Safety and Operations Guidelines are aimed primarily at the station's news room personnel who are using WAGA's electronic news gathering (ENG) vehicle which has an extendible microwave mast and antenna on top.

But many of the same rules apply to amateurs who are erecting antennas. The page also includes some new information on lightning safety — based on tips from the National Lightning Safety Institute.

Some basic safety rules worth repeating are:

- Electrical lines can cause serious injury or death.
- Keep all people, tools, and equipment at least 15 feet from all overhead wires.
- Overhead lines are not insulated. They should not be touched.
- Some lines have a weather covering and appear to be insulated, but they are not.
- Stay away from electrical devices such as meters, transformers and substations.

For more information, set your browser to:
<http://wagatv.com/ENG/on the web>
(this address is case sensitive)

NTIA RECOGNIZES AMATEUR RADIO'S DISASTER RELIEF CONTRIBUTIONS

By W7OTV
From ARRL FIELD FORUM

Amateur Radio "continues to play an important role in disaster-relief communications, where amateurs provide radio-communications independent of the telephone network or other radio services," according to a recent National Telecommunications and Information Administration (NTIA) report.

The report, High Frequency (3-30 Mhz) Spectrum Planning Options, a planning document released December 13th by NTIA also says the HF spectrum is flexible enough "to accommodate most, if not all," demands for additional HF spectrum, including *new and bigger* HF ham bands. The NTIA is an Executive Branch agency in the Department of Commerce that's responsible for developing telecommunications policy and advising the President on telecommunications matters.

The NTIA's latest report is a follow-on to an NTIA study released in March 1995. To view the complete report, set your Web browser to: www.ntia.doc.gov/osmhome/reports/hfspo/contents.html

GOOD NEWS! AEA PRODUCTS WILL BE AVAILABLE AGAIN

By W7OTV
From The ARRL Newsletter

Advanced Electronic Applications (AEA) has closed deals to sell its product lines to two other companies, but the AEA name will live on. Former AEA Chairman Mike Lamb, N7ML, says AEA's line of antennas, antenna analyzers and cable-testing equipment was sold, effective March 7, to Tempo Research of Vista, California.

Tempo will handle all technical support, warranty and after-warranty service and plans to produce the products in the antenna, antenna analyzer and cable-testing line that AEA had been producing before it ceased operation late last year.

Tempo will continue the AEA name under a separate division. Lamb, who says he will assume a primary marketing position with the new division, says he's excited about the prospect of continuing a role with a portion of the AEA product line that he had a particular interest in. He said he hopes to work on new product development as well.

Timewave technology of St. Paul, Minnesota, already a major name in ham radio gear, is buying the rights to all other AEA products, including its digital line. But Timewave President Randy Gawtry, K0CBH, asked the amateur community to give the company a few weeks to set up the new product line before calling.

"Watch our Web page," he said. The Home page can be found at <http://www.timewave.com>

Gawtry says a purchase agreement is in place, and Timewave is in the process of making the product line transition from AEA to Timewave and hopes to be manufacturing products soon. Timewave will have the right to use the AEA name for one year (AEA model numbers will be continued, however). Gawtry said Timewave also will handle technical support, warranty and after-warranty service for the new product line, which will include AEA's DSP-232 multimode TNC, introduced last year.

Callers to the former AEA number are now being directed to either Tempo or Timewave, as appropriate. Tempo Research is at 619-598-9677. Timewave's number is 612-452-5939.

READY TO START THAT RETAIL MARKETING CAREER?

By W7OTV

Ham Radio Outlet is one of our newsletter's paid advertisers and a customer-friendly Ham Radio equipment store which stocks a broad range of new products from most Amateur Radio manufacturers.

Earl Reinoehl, the manager, asked if we would run a Help Wanted advertisement which might result in a win-win for one of our members.

HELP WANTED

Part time shipping/receiving. Five days a week.
Possible sales position later. Ham license required.
Contact Earl at HRO - 503-598-0555

LET'S ALL SHOW OUR SUPPORT FOR THE VOLUNTEER PROTECTION BILL

By W7OTV

Excerpts from the Northwest Division Newsletter
See Page 2 for a description of the above bill.

The *Volunteer Services Act of 1997* is an important bill. It will go a long way to give amateurs who are performing duties for the FCC, namely the Official Observer Program and the Volunteer Examiner Program the kind of liability program they need.

All amateurs should write to their members of Congress regarding this legislation. Ask your Representative to co-sponsor HR 1013. Your letters should be kept short and courteous. Do not take this

(Continued on page 6)

opportunity to raise other issues, as we definitely do not want any controversial issues to be raised — such other issues could weaken our chance of passage. The letter could simply say something along the lines of: "Please co-sponsor HR 1013. This bill will amend the communications act to protect the personal liability of amateur radio operators while performing duties on behalf of the Federal-Government. This will save the FCC time and will save the taxpayer's money that would otherwise be needed to carry out these programs."

Your help is needed to get as many sponsors as possible. This approach will demonstrate that the bill has wide, non-partisan support of amateurs in each Congressional District.

LPTV IS ON THE AIR FROM COOPER MOUNTAIN

From the TERAC NEWSLETTER

Licensed for a blow-torch signal of 38 Watts ERP, it is K04OG, (as in Channel 4) running the A1 TV Network (sports and old stuff).

The antenna is a couple of stacked yagis, aimed kinda east. It is owned by Ken Seymour, KA7OSM, who also owns the property and the self-supporting tower which has at least one ham repeater and a bunch of packet stuff on it.

CUTTING EDGE TECHNOLOGY

From the W5YI REPORT

Heat The Person Rather Than The House

A report in the December 18th issue of *New Scientist* tells about an experimental low cost home heating system that warms people by exciting the body's water molecules, thus raising body temperature.

"The microwave home heating test room contains a standard 800 watt transmitter which sends microwaves into the room. The walls are lined with metal to reflect microwaves around the room, and giant metal blades "stir" the microwaves to prevent hot spots and ensure even heating."

The story also says that a side benefit of microwaves is that since they can switch light bulbs on, the system could also be used for power-less and wire-less lighting.

This idea ought to give the EPA, FCC, FDA, IEEE, ANSI, OSHA (and all those other acronyms) something to chew on!

**<ARRL DUES ARE GOING UP ON JULY 1ST>
RENEW BEFORE THAT DATE
AT THE OLD RATE**

INTERNET MORSE CODE???

From the W5YI REPORT

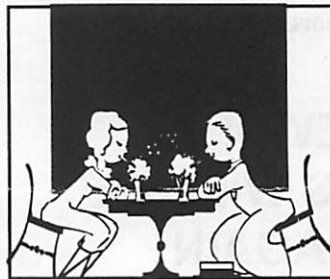
There is a very interesting (and high quality) Morse Code Translator on the Internet. It is located at:

<http://soton.ac.uk/~scp93ch/refer/morseform.html>

You merely input your text and the site plays it back through your sound card, in any of three audio formats, at speeds from 5 to 40 wpm. The site belongs to Stephen Phillips of Nottingham, England.

JOIN THE PARTY..... Mark your calendar for April 26th at 1:30PM! By Geno, KA7KBH

Last months get-together at Izzy's Pizza was enjoyable — a good time was had by all twelve people who were able to make it.



This month, on the 26th, a Saturday, at 1:30PM, we will have a luncheon at *Hometown Buffet*, located at 3790 SW Hall Blvd, in Beaverton. The phone is 627-0336

The food is very good, lots of things to eat, and it is *All You Can Eat*. Hope you can make it and I'm looking forward to seeing many of you there.

73, Geno

COMPUTER INFO

From the W5YI REPORT

Largest Electronic Retailer?

Do you know what retailer sells the most IBM "Aptiva" personal computers, RCA DirectTV satellite systems and cellular phones in the US?

Believe it or not, it is *Radio Shack*! The reason — they have 6,800 stores and more than a million people visit a Radio Shack every day. And did you know that the chain began in Boston in 1921 catering to ham radio operators and electronics hobbyists.

AIN'T IT THE TRUTH

In the US today, you are considered innocent until appointed to a public position by the President!

OTVARC IS A SPECIAL SERVICE CLUB

By W7OTV

PART TWO OF THREE

The first part of this three part series was published in the February issue of the *OSCILLATOR*. In the March issue we ran out of space and were unable to bring you the planned Second Section. Each of the sections shows about one-third of the activities OTVARC members have been involved in and the planned activities for 1997. Part three, the final, will be included in the May *OSCILLATOR* issue. (Ed. - we hope)

C. Emergency Communications

Purpose: Club members should become skilled in communicating effectively during communications emergencies and be prepared to assist when needed. Official Emergency Station appointment and participation in ARES.

We do and will continue to:

- Maintain Emergency Communications trailer
- Use Emergency trailer at Field Day and SEA*PAC
- Have ARRL Official Emergency Station, KI7CL
- Sponsor SEA*PAC emergency related programs
- Have club programs on Emergency Communications
- Have high club participation in local NETS
 - i.e. District One ARES
 - Traffic and Training
 - Washington County ARES
 - NWAG
- Encourage members to participate in local ARES groups
 - Washington County ARES
 - ERT
 - TERAC
 - Lake Oswego ARES
- Continue high participation during local emergencies
- Support the 146.90 and 440.35 repeaters

We also plan to:

- Train, plan, & conduct bunny hunts
- Use trailer as needed for emergencies, PS, & PR

D. Technical Advancement

Purpose: continuing education in the technical aspects of Amateur Radio to ensure that your club members are technically competent, familiar and comfortable with modern radio-electronics technology; Technical Specialist appointment.

We do and will continue to:

- Sponsor SEA*PAC technical programs
- Provide project night several times per year
- Provide some technical programs at club meetings
- Distribute Ham related books to local schools and libraries
- Provide Code training on the Air, N2WLQ
- Encourage Elmering by club members
- Publish technical articles in the newsletter
 - i.e. Packet Radio Series
 - Satellite Communication Series
- Encourage participation in other technical or support groups
 - i.e. OPEN
 - ARRG

We also plan to:

- Schedule & conduct VE testing
- Appoint a Technical Specialist, W7NI
- Publish PCC license class schedule
- Update Library/school books as needed (1997, 2000)

*****TO BE CONTINUED NEXT ISSUE*****

PERSONALITIES IN PUBLIC SERVICE - PART 3

THE BEAUTY OF TREES

By Randy, KZ7T

Ed.- Randy continues to share interesting sidelights which occur in the world of Public Service.

Trees are used for many things: paper; building houses; landscaping; and for going behind after you have consumed too much liquid and there is no other place to go. They can also be used for shade.

Sometimes there is a problem with trees though - in Central Oregon many times there are no trees, just flat land and wheat county. I have been a tree many times during Cycle Oregon events, mostly in Central Oregon.

The cyclists ask if it is OK, and what can I say. I have even been the recipient of some people that were sick after pushing themselves too hard up a long hill, just after they had eaten.

Well, you get the drift. I have never been a tree for a person that ate too much and needed to do the other thing, and I hope that it will never happen. Rumor has it that there are some cyclists that can do it on the move - the liquid part that is.

I have been a shade tree more times than I would like to count. I have had to call an ambulance in several times for questionable cyclists.

On Cycle Oregon #5%^& I was doing my usual thing as Net Control, all set up on top of a high hill, just a short way off the highway in Central Oregon. This was the top of a five mile hill. The day was clear - not a cloud in the sky. As the sun started to come up over the horizon, a cyclist came up and asked if he could, and of course I said yes.

I was doing my babbling on the net and later noticed that he was back there a long time. I decided that I should see what his problem was, so I put the net on hold and went back there. To my surprise, he wasn't there. I looked around and saw him up on a ridge close by. I walked up to see what his problem was.

When I got up there I found the problem! It was Mt. Rainier. Mt. Adams, Mt. St. Helens, Mt. Hood, Mt. Jefferson and the Three Sisters. The sun was just lighting the tops of them, with that orangy-reddish color, and it was magnificent.

He said that he had never seen anything like it, and he wasn't going any further that day. I had to agree with him. He was from New York. I returned to the pickup and got back to work. I saw him some minutes later on his bike pedaling toward finish. That sunrise was one of the prettiest that I can recall every seeing.

I was a fruit stand once! I was on the course, in the Mt. Hood area that day and Jim, KB7ADH, had a case of bananas to distribute.

Where he got them, who knows. He put them on my hood. I was just a few miles past the lunch stop and as the cyclists would see the bananas on the hood, they would stop, take a banana, and leave an apple or an orange. By the end of the day, I had n bananas, but a lot of apples and oranges. When I got ready t leave, that evening, I threw all of the fruit into the woods.

If you ever go up that way and see an apple orchard or an orange grove, it will be where I was parked. You noticed that I didn't tell you exactly where I was.

Next time we will talk about SAG drivers. I might even explain what a SAG is.

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RENEWING YOUR ARRL MEMBERSHIP?

By W7OTV

Here is a great way to help out the club treasury and still renew your ARRL membership!!! Bring your renewal form, the envelope (with stamp) to the next meeting. Easy so far, right? Here's the tough part - make out your check to OTVARC in the correct renewal amount, attach it to the form and the envelope, and then give it to Van, KE7BB, the Treasurer (you can mail it to him if you wish).

Van will then send your renewal form in with a check from OTVARC, *but will keep a couple of bucks for the club!* The club makes a few bucks, you get your renewal taken care of, and ARRL is happy also - what a deal!!!



W7NDH

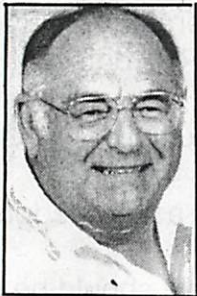
#033

Lowell Sheelar, 67, resident of FG

FOREST GROVE—Memorial services will be Friday at 2 p.m. for Lowell Wayne Sheelar, 67, Forest Grove.

Mr. Sheelar died March 7, 1997, at Yuma Regional Medical Center while wintering in Yuma, Ariz.

Friday's services will be at Fuiten-Rose Mortuary Chapel, 2308 Pacific Ave., with Pastor Ed



SHEELAR

Stanton of Evergreen Christian Center Foursquare in Hillsboro officiating.

Family and friends are invited to a reception at the Forest Grove Elks Lodge 2440, 2810 Pacific Ave., immediately following the memorial services.

Mr. Sheelar was born Aug. 7, 1929, in Forest Grove, a son of Myron and Lillian Porter Sheelar. He was raised on the Sheelar Farm, two miles west of Forest Grove, and graduated from Forest Grove High School in 1948.

He attended Oregon Technical Institute (now Oregon Institute of Technology) in Klamath Falls and then began working as a troubleshooter for General Telephone Company.

On March 28, 1958, he married Joan Townsend in Forest Grove, where they had lived since.

Mr. Sheelar retired as an equipment area supervisor for General Telephone in 1985.

Mr. Sheelar enjoyed ham radio, telephones and electronic gadgetry.

He and his wife have spent winters in Yuma, Ariz., for the last six years. While there, he enjoyed road runner outings in the desert and Ham Radio Club activities.

Mr. Sheelar's favorite saying was "you have to have a little bit of fun every day."

He was a member of Forest Grove Elks Lodge 2440.

Survivors include his wife, Joan Sheelar, Forest Grove; three sons and two daughters-in-law, Dave and Eileen Sheelar, Keizer, John Sheelar and Mike and Stacia Sheelar, all of Forest Grove; a daughter and son-in-law, Kelly and Greg McKelvey, Hillsboro; seven grandchildren, Scott Sheelar, Tara, Amy and Alycia McKelvey, Sarah and Karen Sheelar and Kayla Sheelar; and numerous nieces and nephews.

He was preceded in death by a son, Lynn Sheelar, and a sister, LaFleur Dwyer.

The family suggests memorial contributions to the American Heart Association, 1425 NE Irving, No. 100, Portland, OR 97232, or to the American Diabetes Association, 6915 SW Macadam, No. 130, Portland, OR 97219.

Fuiten-Rose Mortuary Chapel is in charge of arrangements.

Hillsboro Argus

TUESDAY, MARCH 18, 1997

Radio club captures national honor

The Oregon Tualatin Valley Amateur Radio Club based in Aloha has been designated a Special Service Club by the American Radio Relay League.

The national organization honored the Tualatin Valley ham radio club for its emergency communications program, its education and community programs.

The club has ongoing programs in ham development and training; support for community events such as Cycle Oregon, Walk for the Cure and MS 150; air waves help during emergencies; technology advancements; operating competence; and club member activities.

SWAP MEET

MAY 10, 1997

Northwest Vintage Radio Society
and
Portland Amateur Radio Club

Talkin Frequency 146.84 (-600), Simplex 145.73

TIME 9:00am to 3:00pm

Where: Hillsboro Armory
Washington CO Fairgrounds

Admission: ONLY \$2.00 at the door

Tables: \$10.00 Limited so sign up soon
Sellers in Friday night and at 7:00 am Sat.

VE Testing: Pre register for the 9:00am session
Walkins Welcome at the 12:00 Session
Contact Greg KK7GN at 360-576-1989
or Email greg@teleport.com
Before May 3rd

Commercial Displays

Door Prizes

Refreshments

RV Overnight parking \$10w/hookup & \$5 w/o
Pay in advance by April 25th

For information and preregister contact Kirk KB7EGK 503-786-5142 or email kirk.e.smith@tek.com
or Myron White 503-629-5513

Radio Contest Rules, OTVARC Fifth Wednesday Radio Contest

- 1) Object: To work as many amateur stations as possible in as many different 5-digit ZIP codes as possible using 147.42 FM simplex.
- 2) Contest Period: 2000 local through 2100 local, Wednesday, April 30, 1997
- 3) Categories:
 - A) Single Operator: One person performs all operating and logging functions.
 - B) Single Operator QRP: Same as (A) with a power limitation of 5 watts.
 - C) Multioperator: More than one person performing operating and logging functions.
- 4) Exchange: Operating 5-digit ZIP Code and Station Category.
- 5) Scoring:
 - A) QSO points: Count one (1) point for each complete single operator or multioperator QSO. Count two (2) points for each complete single operator QRP contact.
 - B) Multiplier: The total number of 5-digit ZIP codes worked.
 - C) Total score: Multiply the total number of QSO points by the multiplier.
- 6) Miscellaneous:
 - A) Partial QSOs do not count. Both calls, the full exchange, and acknowledgement must be sent and received.
 - B) While no minimum distance is specified for contacts, equipment should be capable of real communications (ie. able to communicate over at least 1 km.).
 - C) Use of repeaters and telephones to coordinate contacts is not allowed.
 - D) Rovers are not allowed. Stations must remain in one location for the duration of the contest.
 - E) Only one call may be used by any station.
- 7) Reporting:
 - A) Entries must be delivered to the contest organizers at or before the May 14, 1997 OTVARC club meeting. (Jim Schaeffer or Alan Chinnock)
 - B) Entries must be made on log sheets similar to those used in the April Fools Contest.
- 8) Awards:
 - A) Certificates will be awarded for the top points winner in each station category.
 - B) Awards will be made at the club meeting June 11, 1997

Contest Summary Sheet

Call Used _____ Operating ZIP Code _____

Other Operators _____

Category: ☐ A - Single Op ☐ B - Single QRP ☐ C - Multioperator

Scoring: Category A QSO's _____ X1 _____
 Category B QSO's _____ X2 _____
 Category C QSO's _____ X1 _____
 Total QSO Points _____

Times Number of ZIP Codes _____

Total Claimed Score _____

Signed _____ Date _____

Attach Log Sheets detailing all contacts, including Call, ZIP Code, Category, and Time.

OTVARC Club Contacts

OTVARC Executive Board

President	Betty Mickley	N7REX	642-1284
Vice President	Jim Schaeffer	KB7ADH	245-2518
Secretary	Dale LeBarron	W7FBP	638-7768
Treasurer	Hanford Van Ness	KE7BB	246-7975
Trustee	Jack Smithson	KA7HOJ	646-1873
Trustee	Will Sheffield	N7THL	642-7314
Trustee	Janet Bell	WB7FJC	648-4147
Trustee	Al Berg	WB7SIC	640-5456
Trustee	Stan Griffiths	W7NI	649-0837

Other Club Contacts

ARRL Coordinator	Bob Orr	WF7Q	472-2716
Bunny Hunting	OPEN		
Contesting	OPEN		
DX News	Rich Jones	KG7FS	645-9417
Equipment Valuation	Randy Stimson	KZ7T	297-1175
Equipment Trustee	Al Berg	WB7SIC	640-5456
Emergency Services	J.D. Fort	KC7EHT	629-8050
Field Day	Carl Clawson	WS7L	629-5796
Health & Welfare	Mary Berg	N7TRW	640-5456
Historian	Al Berg	WB7SIC	640-5456
Member Badges	Carl Clawson	WS7L	629-5796
Newsletter Editor	Dale LeBarron	W7FBP	638-7768
Newsletter Layout	Dale LeBarron	W7FBP	638-7768
Newsletter Distribution	Al Berg	WB7SIC	640-5456
Nominating Committee	OPEN		
Packet - Club BBS	Rick Braun	KB7OGD	645-1490
Project Night	Alan Chinnock	KB7POR	636-2237
	Chuck Mickley	KI7CL	652-1284
Public Relations	Bill Merwin	N7VZF	644-1974
Public Service	Randy Stimson	KZ7T	297-1175
Repeater	Wes Allen	K7WWG	649-3295
RFI & TVI	Dale Mosby	K7FW	640-0217
Satellites	Dick Emmel	W7KJZ	245-1928
Scholarship	Carl Clawson	WS7L	629-5796
Sea-Pac	Al Berg	WB7SIC	640-5456
"	Brad Beach	N7NVC	657-1781
"	Jim Schaeffer	KB7ADH	245-2518
"	Randy Stimson	KZ7T	297-1175
Technical Specialist	Stan Griffiths	W7NI	649-0837
Tower Ordinances	Greg Milnes	W7AGQ	648-6990
Trailer	Dee Lynch	KA7NPN	646-4580
Training(code)	Burt Rooke	KI7JX	241-2891
Training(Novice/Tech)	Burt Rooke	KI7JX	241-2891
Training(upgrade)	OPEN		
VE Test Group	Gerry Villhauer	WA0UCQ	693-7222
VHF/UHF	Arnold Jensen	N7YAG	543-3713

OTVARC Club Information

Purpose: The Oregon Tualatin Valley Amateur Radio Club, a Not-for-profit corporation, wants to be instrumental in helping the prospective as well as established Amateur to become a proficient communicator in the Amateur Radio Service.

Additionally, the intent is to promote the advancement of Amateur Radio Service, through the following five objectives:

1. Education & Training of new and licensed Amateurs.
2. Public Service during public events & community activities.
3. Emergency communications during emergencies & disasters.
4. Hobby enhancement through meetings, nets & contests.
5. Social contact with other amateurs & interested persons.

Special Service Club: OTVARC is an ARRL Special Service Club. The ARRL grants us this distinction due to our participation in emergency preparedness exercises, public service events and other service-oriented programs. In addition, continuing educational and training programs are conducted for FCC licenses. OTVARC benefits from you joining the ARRL through OTVARC. To join or renew your membership in the ARRL, contact the treasurer at any regular meeting.

Newsletter: The *OTVARC Oscillator* is the club newsletter. It is published monthly and is usually mailed on the first of the month. The opinions, views, and recommendations of its contributors are not necessarily those of the club, its officers, advertisers or the editorial staff.

Correspondence: All correspondence may be sent to OTVARC, PO Box 5132, Aloha, OR 97006-0132.

Advertising: Classified ads are free to all paid up members. Display ads are available to approved commercial interests. To place an ad, mail your camera ready copy to the address above and indicate the size desired. All display ads run for six months at a time, from January through June and July through December. All ads must be paid for in advance. Rates for 1994 are as follows:

Full page	8" X 10"	\$200 for six months
Half page	8" X 5"	\$125 for six months
Qtr page	4" X 5"	\$75 for six months
Bus. Card	2" X 3"	\$35 for six months

Meetings: We have two meetings per month. The board meeting is on the fourth Wednesday of each month. All club business is conducted at this meeting. All members are welcome to attend. Contact the President for location and time. The general meeting is on the second Wednesday of each month at the Beaverton Elks Lodge, 3500 SW 104th Ave. (1 block north of Canyon Road). Meetings start at 7PM. If you would like to come early, you can get a nice meal from the Elks for less than \$6.00.

Membership: OTVARC is open to anyone who is interested in amateur radio. You do not need to be a licensed radio amateur to join. Dues are as follows: Full member, \$10/yr; Associate member (non-licensed), \$10/yr; Family members of full member, \$5/yr; Life memberships available - see the Treasurer. Only full members and life members may vote on club business and serve as club officers. All memberships expire on the last day of the calendar year. If you would like to join during the year, see the club treasurer for prorated dues.

How to join: Simply mail the Membership application and/or renewal form along with your dues to the address above.

Internet Home Page: WWW.EASYSTREET.COM/OTVARC

WORLDWIDE DISTRIBUTION



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Manager
KE7OA

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Flea Market Table Renters Please Note:
SeaPac Flea Market is a service to those with used ham gear to sell or trade Table renters with new equipment on their tables may be asked to remove the new equipment if a Commercial (Main Floor Booth) Exhibitor objects.

PLEASE ALLOW 4 WEEKS FOR RECEIPT OF TICKETS

MAKE CHECKS
PAYABLE TO:
SEA•PAC

REGISTRATION

Mail To: SEAPAC, Box 219142, Portland, OR 97225-9142

No. _____
Office Use Only

_____ Registrations at \$6.00 ea. (\$8.00 at the door) \$ _____
_____ Teens Convention Registration at \$2.00 ea. (No Awards) .. \$ _____
_____ Children 12 and under FREE
_____ Used Equipment Flea Market Tables (No Dealer Sales) \$ _____
(\$14 per table per day or \$20 per table for 2 days)
_____ Saturday YLRL Lunch at \$12.00 (50 person limit) \$ _____
_____ Saturday QCWA Lunch At \$12.00 (75 person limit) \$ _____
_____ Saturday Banquet Salmon Dinner at \$20.00 \$ _____
_____ Saturday Banquet Prime Rib Dinner at \$20.00 \$ _____
300 Person Limit
Total \$ _____

NOTE: Flea Market Participants must
be registered for the convention

Registration Questions
Brad 503-657-1781

Name _____ Call Sign _____

Address _____

City _____ State _____ Zip _____ Phone _____

NICKNAME & CALL SIGN FOR REGISTRATION BADGE (Please Indicate Children: (C) Please Print) Ⓟ

OTVARC

OREGON TUALATIN VALLEY A.R.C.

PO Box 5132

ALOHA, OR 97006-0132

ADDRESS CORRECTION REQUESTED

~~XXXXXXXXXX~~
~~XXXXXXXXXX~~
~~XXXXXXXXXX~~

